

CLAIMS

1. A water purification system comprising:

a plurality of compartments through which water to be purified flows,
each compartment communicating with an adjacent compartment so that

5 water flows through the compartments in alternating directions, with a first of
said compartments having a water inlet and a last of said compartments
having a water outlet,

a venturi having at least one suction or injection port coupled to said
inlet of said first compartment so that motive flow of water through said venturi
10 is directed into said first compartment,

an ozone generator further comprising:

an ultraviolet lamp that emits first wavelengths that produces
ozone in a flow of air around the lamp, and which further emits second
wavelengths that force ozone to react in water flowing around the lamp,

15 a watertight housing located in a last of said compartments,
with at least walls of said housing in said last compartment being transparent
to said first and second wavelengths and said ultraviolet lamp located in said
watertight housing,

an air entrance and an air exit in said watertight housing, said
20 air exit coupled to said suction or injection port of said venturi,

whereby air flowing through said watertight housing is enriched with
ozone and inserted in said motive flow by said venturi, and thereafter flows
through said compartments to said last compartment where any residual ozone

in the flow of water through said last compartment is forced to react, and thereafter exits said last compartment free of ozone.